

## C L A I M S

1. Dermal or transdermal therapeutic system comprising a sheet-like substrate or reservoir containing readily volatile auxiliary agents or active agents, which substrate or reservoir is covered on one of its sides with a backing layer impermeable to the ingredients and on the opposite side with a detachable, likewise impermeable protective layer to prevent loss of ingredients during prolonged storage, characterized in that both the backing layer and the protective layer are made of plastic film which is impermeably coated on both sides with vapour-deposited metal.

2. Therapeutic system according to Claim 1, characterized in that the amount of metal which is vapour-deposited per unit area is preferably 10 to 500 mg/m<sup>2</sup>, and more preferably 40 to 200 mg/m<sup>2</sup>. 112

3. Therapeutic system according to one or more of Claims 1 to 2, characterized in that the vapour-deposited metal is aluminium.

4. Therapeutic system according to one or more of Claims 1 to 3, characterized in that the plastic films of the protective layer, which are provided with a vapour-deposited metal layer, are rendered adhesive on at least one side.

5. Therapeutic system according to one or more of Claims 1 to 4, characterized in that the plastic films are selected from the group of polyester, polyethylene, polypropylene, polyamide, polyurethane, polyvinyl chloride, polyvinylidene chloride, polyvinyl alcohol and ethylene-vinyl acetate copolymer.

6. Therapeutic system according to one or more of Claims 1 to 5, characterized in that the plastic films have a thickness between 0.004 to 1.0 mm, preferably between 0.010 and 0.5 mm.
7. Therapeutic system according to one or more of claims 1 to 6, characterized in that it contains nitroglycerine as ingredient.
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cont 8. Therapeutic system according to one or more of Claims 1 to 6, characterized in that it contains nicotine as ingredient.
9. Process for the manufacture of plastic films provided with a vapour-deposited metal layer, characterized in that to obtain absolutely impermeable double-face metal layers, the vapour deposition is performed under high vacuum in at least one operation.
10. Process for the manufacture of plastic films provided with a vapour-deposited metal layer, characterized in that to obtain absolutely impermeable metal layers, the vapour deposition is performed with the aid of a plasma in at least one operation.
11. Use of plastic films according to Claims 1 to 10 for manufacturing dermal or transdermal therapeutic systems containing readily volatile active agents or auxiliary agents.

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Plastic Film  
- Metal Coated  
on both side

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